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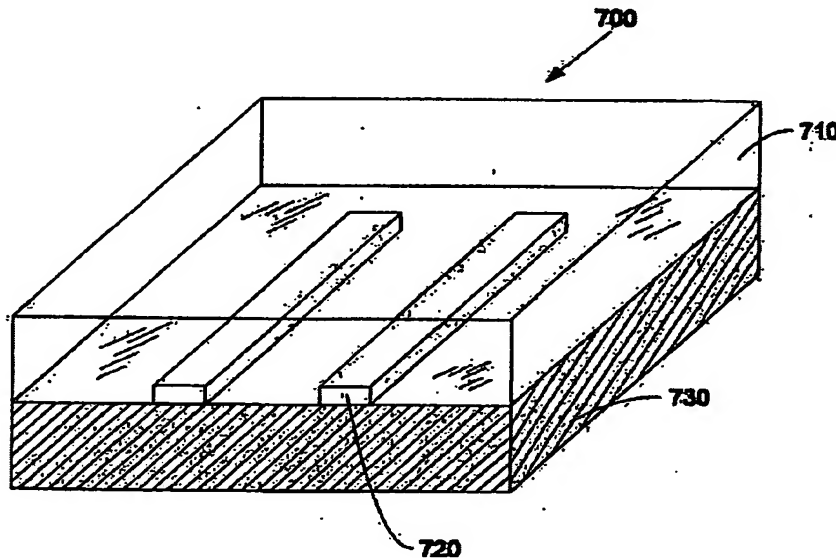
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[Continued on next page]

(54) Title: **THREE-DIMENTIONAL, FLEXIBLE CELL GROWTH SUBSTRATE AND RELATED METHODS**



(57) Abstract: An engineered cell growth substrate is provided along with an apparatus containing the substrate. The substrate contains features, including, without limitation: an extracellular matrix mimetic, areas of differing elasticity moduli and/or 3-dimensional engineered formations, such as grooves or protuberances. Methods of fabricating the cell growth substrate, methods of growing cells on the substrate, and methods of evaluating analytes on cells on the substrate also are provided.

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